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594 What differences in circumstances existed that might affect nutritional level? On the one hand were relatively isolated nuclear families, which we estimated as 15-20% of the
434 families, living in tiny separate cottages.[1] Usually with in-
444 adequate or no land, they earned an irregular income by hiring
423 themselves out for farm or other work. At the other extreme,
596 in a hamlet-like cluster of dwellings, lived a closely affili-
592 ated group of kin. A senior couple more or less headed the
476 married sisters, brothers, or children, maybe with a hired man, or family that as autonomous households cooperated amicably in economic and domestic tasks. We estimated these as 20-25% of the Bang Chan families. The larger social unit, having more hands to produce, and to share tasks, was better able to provide good food and general health care to its members, than a small isolated family. Four problems more easily handled by the larger group were household chores and child-care, farming, borrowing, and earning money.

855 Young children had to be constantly tended lest they fall into the water, the fire, or under the buffalo's feet. They never entered the fields during work. Fishing and gathering of water plants was complicated because in boats, small children had to be held. Where there were but two parents and young children, one parent could not do many things until the other came home. Perhaps neither partner could stay away long enough to get a big batch of fish or greens from the canal, or
[252] to the store. Cooking was simplified, or food might be prepared once a day only. Respite came only when the first
596 born was able to help oversee a younger child, sometimes stay-
476 ing home from school to do so. Where the adult cooperative group was larger, movement was freer. All the strong adults could work in the fields or at a job, confident that the home was well tended. They came home to a well-prepared meal, ready when they wanted it. Such households had more fresh fish because farm work could be completed sooner, hence more persons
[810] could devote themselves to fishing. Some physically able members could even be spared and financed to go beyond the required four grades of elementary school.

241 Plowing could be done by a man and wife, but for both
462 transplanting and harvesting which had to be done within a few
476 days, large groups were necessary. Two patterns of auxiliary
464 group labor prevailed: reciprocal cooperative work, and hiring of labor.

113
114 1. Janlekha, 1955, categorized families as 5% "one-
142 person," 59% nuclear, 8% limited extended (including one or
594 more parents of a spouse), 27% extended (including dependent
596 married couples or other collateral relatives), and the temple
423 residents. At least 32% of the families had inadequate or no land. His figures do not indicate the degree of domestic cooperation which was an ameliorating factor in well-being.

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FOREWORD

The Cornell Thailand Project, like other Cornell University studies in community development, is a long term investigation in the field of the processes involved in changing cultural behavior in a non-industrialized society. Field research was begun in 1948 in the central plain of Thailand with base line studies of the rice farming community of Bang Chan and its environs. A collaborating staff of Thai and Americans representing different disciplines has continued to work in Thailand at Bang Chan and elsewhere in a series of phases extending to the present.

The first interim report issued by the Project gives a general account of the economic, political and social organization of Bang Chan in 1948-49 together with some material on health and diet (Sharp et al., 1953). Since the circulation of this first interim report was limited, some of the salient characteristics of Bang Chan should be outlined here.

Bang Chan is located some twenty roadmiles northeast of Bangkok, the rapidly growing major metropolis and capital of Thailand. The village is between two and three miles west of a small district administrative center and market town, Minburi. A century-old canal and to the north of it a post-war hard surface road connect Minburi and Bangkok so that villagers have easy access to these two centers by boat or bus.

In 1954, when data for the present study were still being gathered, the population of Bang Chan was about 1700, divided among about 300 households. Roughly 60 per cent of the households were made up of independent nuclear families consisting of parents and unmarried children. The average size for all families was 5.7 persons. Rice farming was the main occupation of 80 per cent of all families. The population in 1954 worked and lived on about 2800 acres (7000 rai) of land. With the exception of some 120 acres (300 rai) used for the home sites and home gardens scattered along the network of canals in the village, all land was devoted to the cultivation of wet rice. Nutritional density is thus practically the same as population density. Of the rice crop, 60 per cent or more may be sold, the remainder providing seed, feed, and the staple food of the people. During the wet season and into the cooler dry season, from May or June to February, the growing of the single crop of rice is the main activity. The hot dry season from March until the rice planting begins again is a period of fiestas, ceremonies, and visiting.

The Thai countryside is divided into hamlets, each with a headman in charge of the thirty to sixty households of the hamlet. Seven such hamlets constitute the Bang Chan community. (In the Project studies they are identified by the initials BC and KY followed by a number).

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in Tables 1 and 2.[1]

Heights of children in the Bang Chan elementary school were, on the average, less than mean heights for Thai children given by Yong Chutima (Chutima, 1939). They are much below the mean heights at various ages, from charts (Class II) in use at the Dept. of School Hygiene, Bangkok.[2] Curves for mean weights of children in Bang Chan cross Dr. Yong's average curves, but are well below the average curves for girls and boys in Class II, School Hygiene charts (Figures 1 and 2). When compared with mean weights for children of the same height and age, from tables in use at the Dept. of School Hygiene, however, the two curves are seen to be similar (Figure 3). Mean heights and weights for rural children as reported by Zimmerman (1931) are not very different from those in Bang Chan.

In general, Thai children are shorter and weigh less than western children of the same age. For example, at all ages, mean heights and median weights[3] for both boys and girls in Bang Chan fell below the 10th percentile of the Iowa school children whose measurements are reported by Stuart and Meredith (1946) (Table 3). Weight of clothing was probably about the same for the two groups. In general, the median weight for a given age, in Bang Chan, corresponds to the weight of the 50th percentile for Iowa children 2½ to 4½ years younger. Thus the median weights for 8 year old boys and girls in Bang Chan, were similar to the weights of the 50th percentile of Iowa boys and girls 5 to 5½ years old, and the median weights of 13 year old boys and girls in Bang Chan were similar to weights of the 50th percentile of Iowa boys and girls at 10 and 5½ years of age, respectively. The tallest and heaviest boys and girls of these ages in Bang Chan were shorter and lighter than the corresponding median values for Iowa school children. On the average, however,

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1. Median weights are generally considered to be more representative of a group, but mean values are included as well, for comparison with results of certain other studies.

2. Unpublished data, based on measurements of over 15,000 children, both urban and rural, made over a period of years, and compiled by Dr. Laeng. Furnished through the courtesy of Dr. Ladda of the Dept. of School Hygiene, Bangkok. Subjects were grouped as Classes I and II, of which roughly 1/3 were considered Class I.

3. Most of these observations were made in November or early December, 1952. On the basis of subsequent observations, many children were found to weigh less in May than during the previous February, but weight gains were again observed the following August and November.

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[see pp.9-13-An.] [see p. 14-An.]

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The Innovations

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A. Agricultural Innovations: During the past few years, certain innovations have come to Bang Chan which have increased agricultural productivity and improved the level of living. Some of these innovations are listed below.

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[24H]

1. The small motor. One innovation is the small engine, gasoline motor, which is used mainly as a water-lifting device for irrigation purposes. In 1950 only five small motors were found in Bang Chan.* Twenty-one per cent of the respondents in the 1953 survey, however, report owning these motors; the majority of the respondents (68 per cent) claim to have used this labor-saving device which is sometimes jointly owned by more than one household and is frequently loaned out.**

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2. Straw mushroom growing. Three years ago the commercial growing of mushrooms in Bang Chan was unknown. By 1953, the practice of growing mushrooms had reached into many homes (44 per cent of the respondents report that they have engaged in this activity***). Even if no mushrooms have ever been grown in a given household, it is still likely that the individuals in it are aware of the practice and have observed it closely through the mushroom growing activities of their friends, relatives, and neighbors (reported in 43 per cent of the households). Only a few households (13 per cent) report that they have never grown mushrooms or have never been exposed to it in this way.

One advantage in the culture of straw mushrooms is that it permits quickly realized returns. The cycle, from sowing spores in moistened straw to harvesting the mushrooms, takes about two to three weeks. Another advantage is that there is relatively little heavy work or investment required besides the acquisition of straw and spores. A third advantage is a ready market, for the plant is sought by Chinese dealers in Bangkok who supply hotels and restaurants. Bang Chan rice farmers who engage in mushroom growing as a sideline activity sell it either to local middlemen or directly to the Chinese in Bangkok.

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[113] * Sharp, L., H. M. Hauck, K. Janlekha, and R. B. Textor, Siamese Rice Village. A Preliminary Study of Bang Chan. Thailand, Cornell Research Center, June, 1953.

[125] ** The questions: "Do you own a small engine motor or not? (If 'NO'): Have you ever made use of one in your work?"

[125] *** The question: "Have you ever grown mushrooms, or not?"

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TABLE 22. AMONG ILLITERATE FARMERS USE OF MOTOR IS LINKED TO WIDER SOCIAL CONTACTS

	Exposure to Influence of Others	
	Have more friends or about the same	Have fewer friends
	(Proportion who tried small motor)	
Literacy		
Illiterate	64% (56)	26% (27)
Literate	87 (86)	86 (78)
	(Proportion who tried tilapia)	
Illiterate	34% (56)	15% (28)
Literate	43% (86)	26 (27)

[369] This finding corroborates and expands the previous discussion of the culture contact and acceptance of innovations. Exposure to influence of others from outside the community (through contact with the city, with the airport, with the agricultural fair, for example), as well as exposure to the influence of others from within (through friends and associates) clearly relates to the decision to use an innovation such as the motor. Its effectiveness is not felt equally by the whole population, mainly instead, by those who are illiterate.

The significance of these internal and external contacts to illiterates may be that through such contacts they are likely to gain needed information and motivation which, if one can read and write, is available through other sources. If one cannot read and write, however, it is the outside world which provides this kind of needed information.

Capital Investment and Debt

426 Bang Chan s economy is largely a money economy and many farmers avail themselves of credit facilities through professional money lenders. Most loans are sought for the purpose of replacing capital equipment and purchasing land and buffalo.*

The present survey secures a rough measure of the extent of such borrowing in Bang Chan. The majority of farmers (59 per cent)

[113] * See Janlekha, Kamol O. A Preliminary Study of the Economic Conditions of Siamese Rice Farmers in Bang Chan, Thailand. M.S. Thesis Cornell University, 1951, p. 73.

7: Janlekha X-4,5 (1948-1953)1956 AO7 Central Thai AO7
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